

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A disk apparatus that performs information reproduction by irradiating a laser beam onto a disk recording medium rotated in a CAV system, comprising:

a determining means for determining a reference reproduction laser power value by subjecting said disk recording medium to a test writing and a test reading at a first reference linear velocity;

a specifying means for specifying ~~an optimal~~ a linear velocity coefficient on the basis of a current ambient temperature of said disk recording medium and a current linear velocity at a portion to which said laser beam is ~~to be~~ currently irradiated; and

a calculating means for calculating an optimal reproduction laser power value obtained by multiplying the reference reproduction laser power value determined by said determining means by the optimal linear velocity coefficient specified by said specifying means, wherein,

said specifying means specifies said ~~optimal~~ linear velocity coefficient by use of a first relational expression indicative of a relationship between the ambient temperature of said disk recording medium ~~for~~ at a second reference linear velocity and a linear velocity coefficient, and a second relational expression indicative of a relationship between said linear velocity coefficient and said current linear velocity.

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Currently Amended): A disk apparatus according to claim 1, wherein said reference reproduction laser power value is obtained by adding a predetermined ~~ratio~~ proportion of a lower limit ~~reproduction~~ reproducible laser power value by which said disk recording medium can be reproduced at least to ~~[[a]]~~ said lower limit reproducible ~~reproduction~~ laser power value.

Claim 5 (Currently Amended): A disk apparatus according to claim 1, wherein said reference reproduction laser power value is obtained by subtracting a predetermined ~~ratio~~ proportion of an upper limit ~~reproduction~~ reproducible laser power value by which said disk recording medium can be reproduced at most from ~~[[an]]~~ said upper limit reproducible ~~reproduction~~ laser power value.

Claim 6 (Previously Presented): A disk apparatus according to claim 1, wherein said first reference linear velocity is a linear velocity of an innermost periphery in a ZCAV system.

Claim 7 (Currently Amended): A disk apparatus according to claim 1, wherein said ~~[[first]]~~ second reference linear velocity is a linear velocity of an outermost periphery in the ZCAV system.

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Claim 8 (Original): A disk apparatus according to claim 1, wherein said first relational expression is an expression for decreasing a value of said linear velocity coefficient as said ambient temperature increases.